Chapter 5

Disassembly

Guide

Disassembling the Base Unit

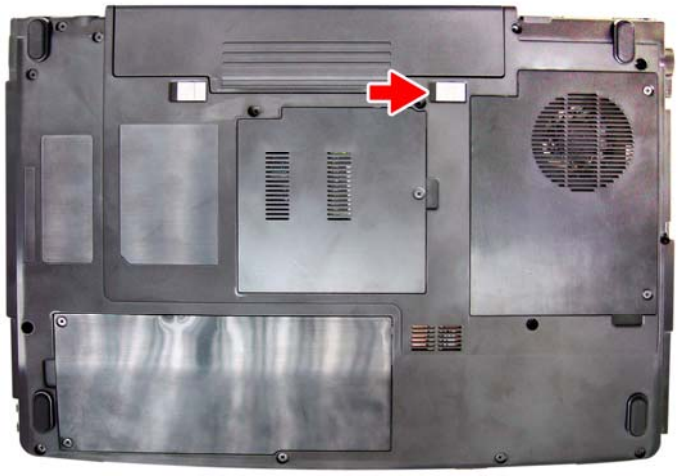
These are the directions for disassembling the base unit. You will need a 5.5mm Nut Driver, a medium size “+” screwdriver.

These directions are to disassemble the complete unit and will be cross-referenced to Section 7 for the replacement of component parts.

Before disassembly, make sure the notebook is powered off.

Removing the Battery Pack

1. Turn the notebook upside down.
2. Unlock the battery lock. (Move the lock to the right.)

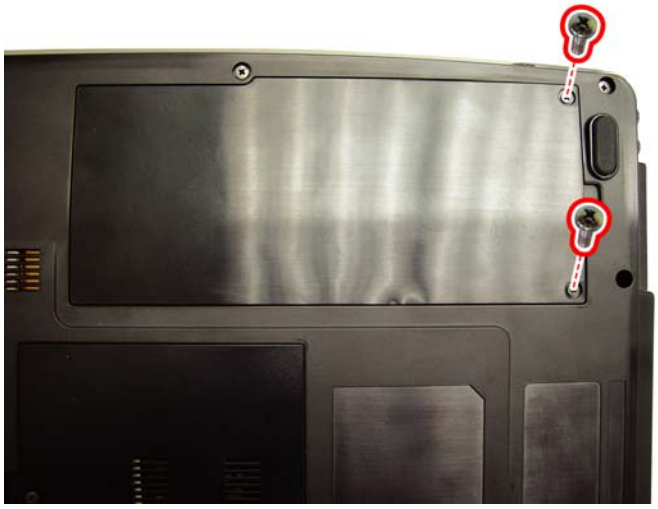


3. Slide the latch lock in direction of the arrow. Battery pack will pop-up automatically.
4. Now, gently pull the battery pack out of its housing.

Removing the HDD Module

Follow the steps below to remove the HDD module:

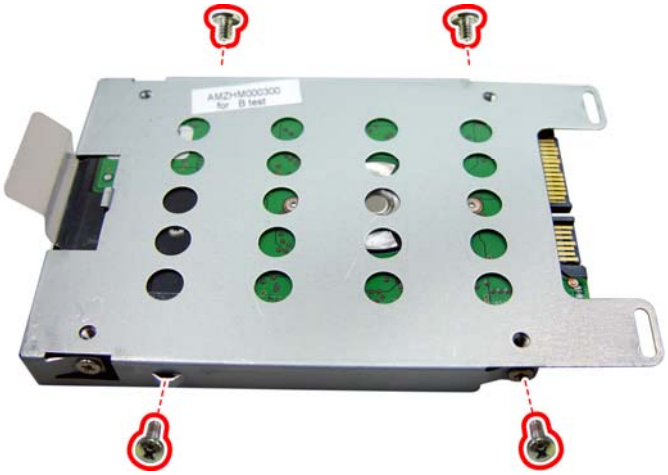
1. Turn the notebook upside down.
2. Release the two screws to release the HDD door.



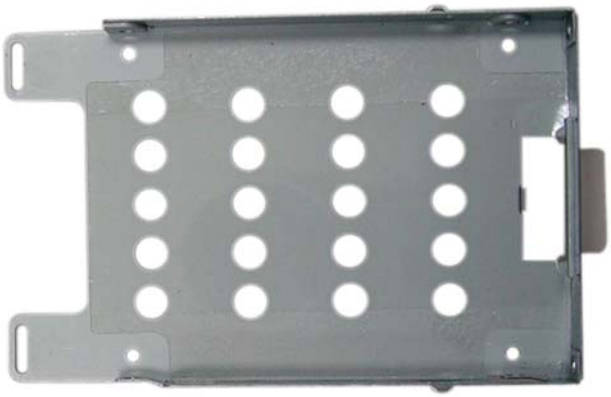
3. Pull up and lift the HDD door the remove it.
4. Remove the two screws that secure the HDD module.

5. Pull out the Mylar tab to remove the HDD unit.

6. Remove the four screws to take off the HDD case.



7. Remove the HDD from the HDD case.

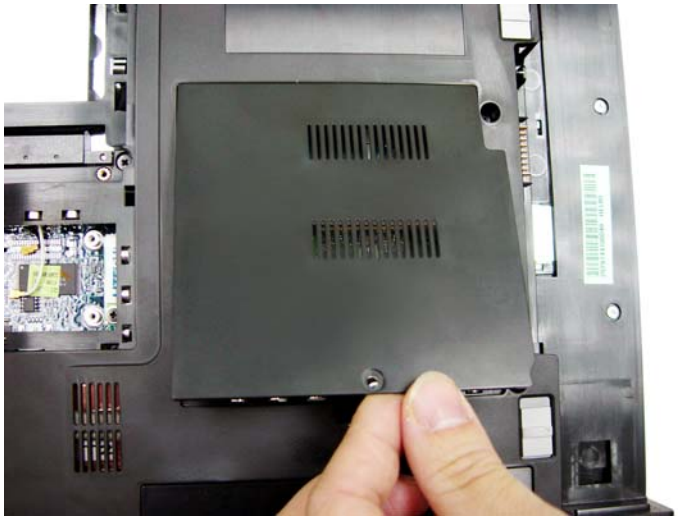


Removing the DDR RAM

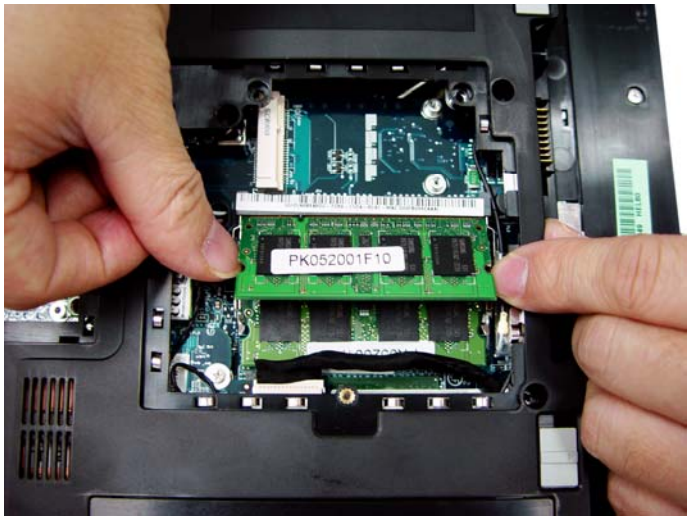
Follow the steps below to remove the DDR RAM:

1. Turn the notebook upside down.
2. Release the screw securing the memory module cover.

3. Gently pry up the cover.



4. Push the latches to release the memory module. A spring will force one end of the module up.



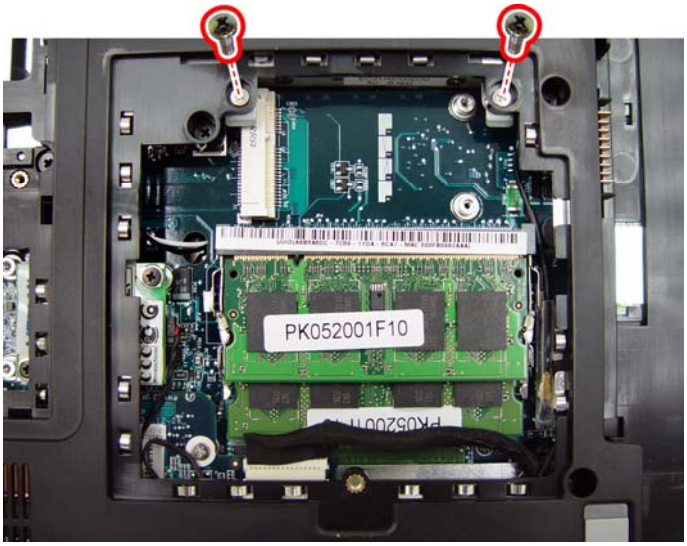
5. Grasp the module and pull it out.

Disassembling the ODD (CD-ROM/DVD-ROM/CD-RW…) Drive

To disassemble the optical drive, you need to remove the memory module cover first as described in the previous section "*Removing the DDR RAM*."

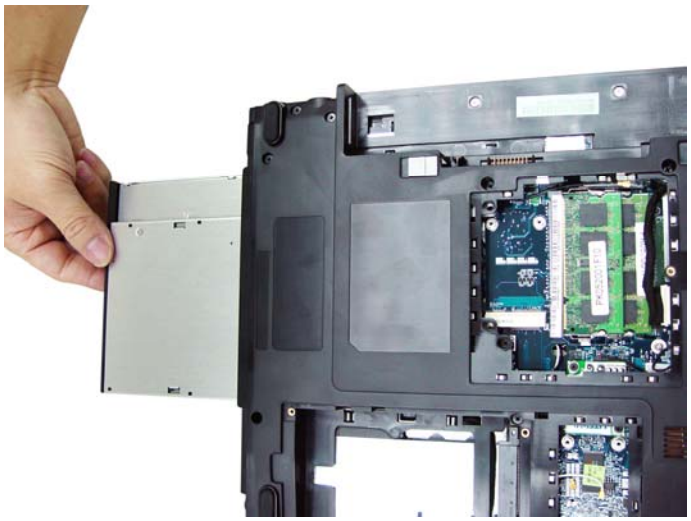
Then follow the steps below:

1. Release the two screws from the bracket plate.



2. Use your finger to slide out the optical drive in direction of the arrow.

3. Gently pull out the optical drive.

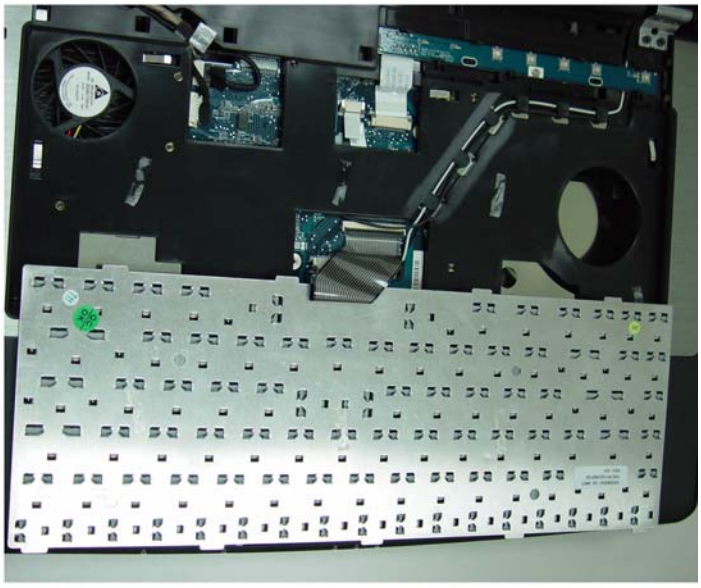


Removing the Keyboard

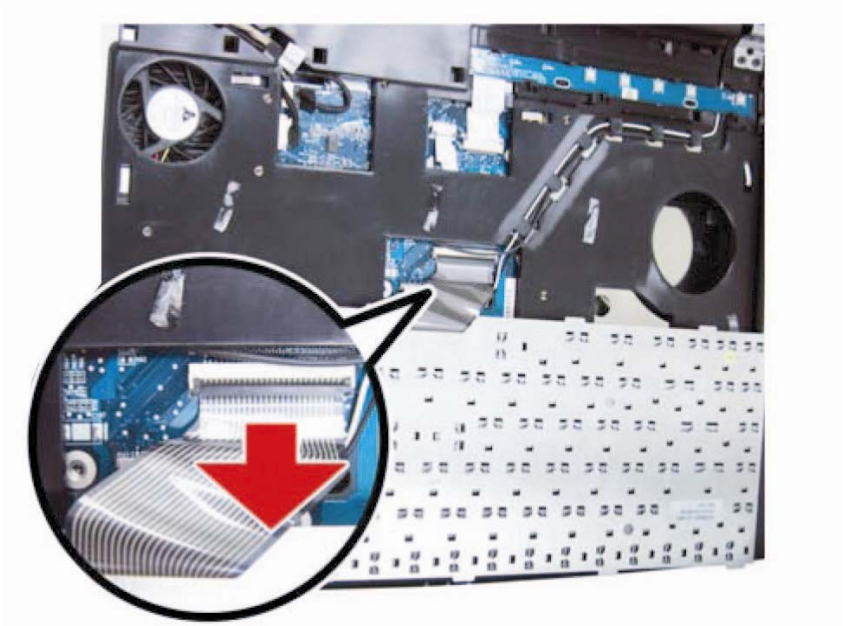
Open the display panel and follow the steps below to remove the keyboard.

1. Insert a thin tool such as a flat screwdriver into the gap between the strip cover and keyboard to lever the strip cover up. Then remove the strip cover.

2. Turn over the keyboard in place, revealing the keyboard cable underneath.



3. Disconnect the keyboard cable from the motherboard.

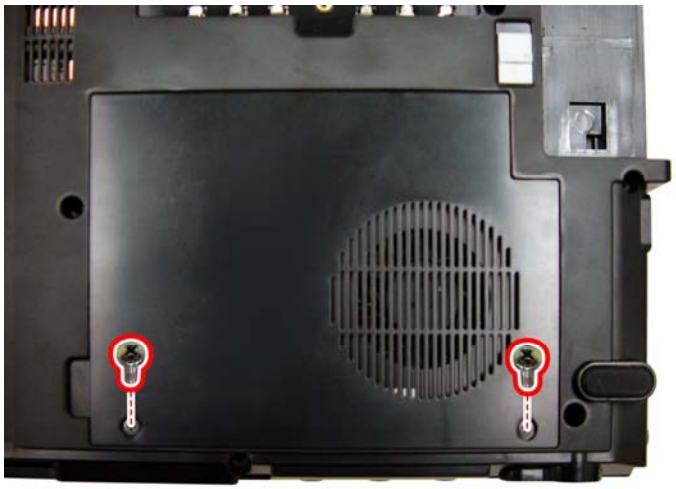


4. Lift and remove the keyboard.

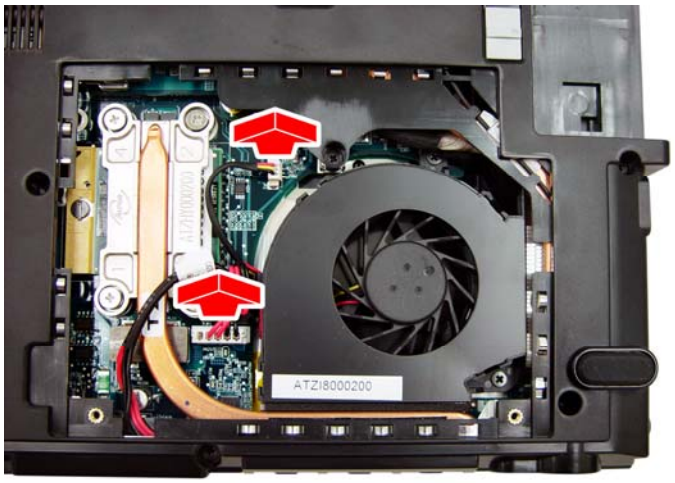
Removing the Thermal Module and CPU

Follow the steps below to remove the FAN, heat pipe, and CPU:

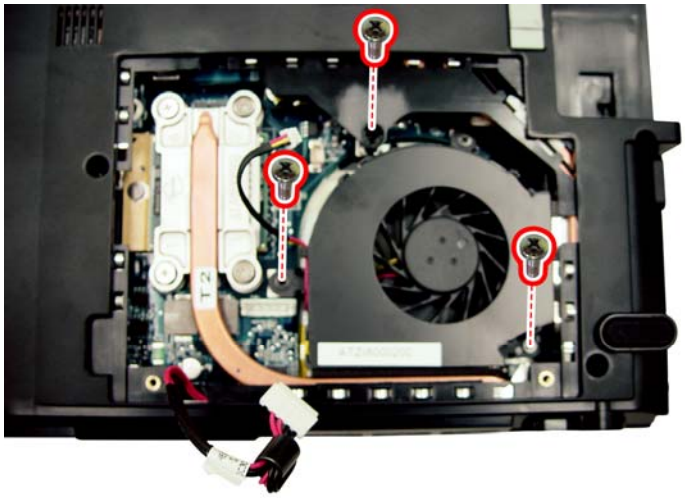
1. Turn the notebook upside down.
2. Release the two screws securing the thermal door.



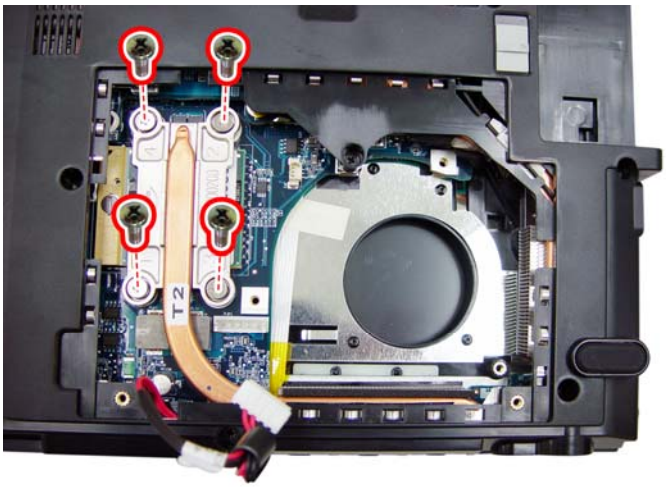
3. Gently pry up the cover.
4. Disconnect the two connectors from the motherboard as shown.



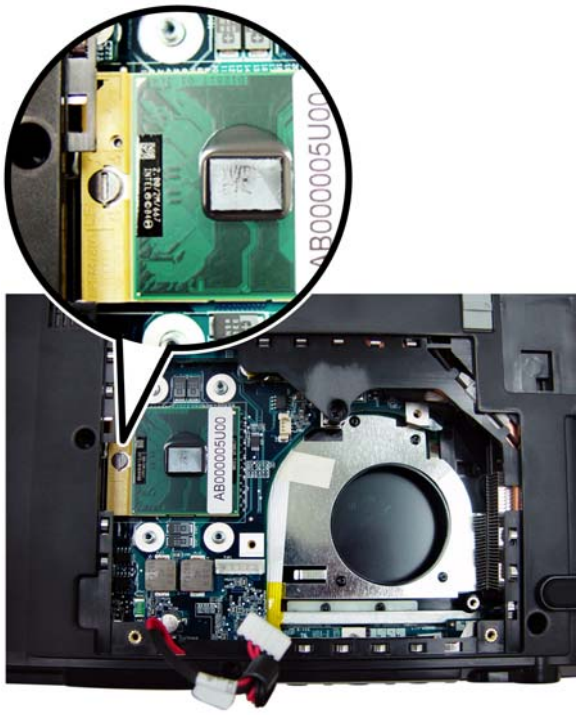
5. Remove the three screws securing the FAN from the system board to remove the FAN module.



6. Remove the four screws from the heat pipe. Then remove the heat pipe from the main board.



7. Turn the cam on the CPU socket with a flat-blade screwdriver so that the notch on the cam is aligned with the *open* side of the CPU socket to unlock the CPU.

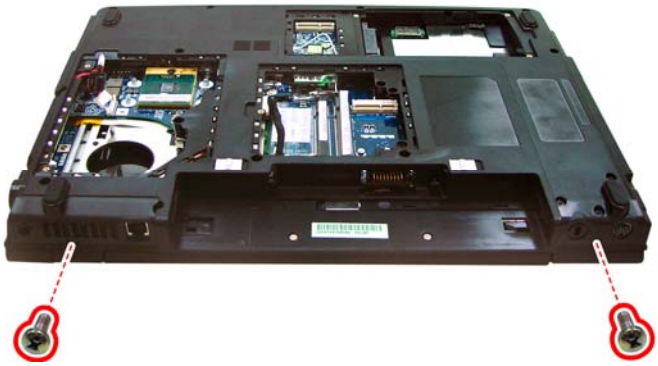


8. Gently lift out the CPU.

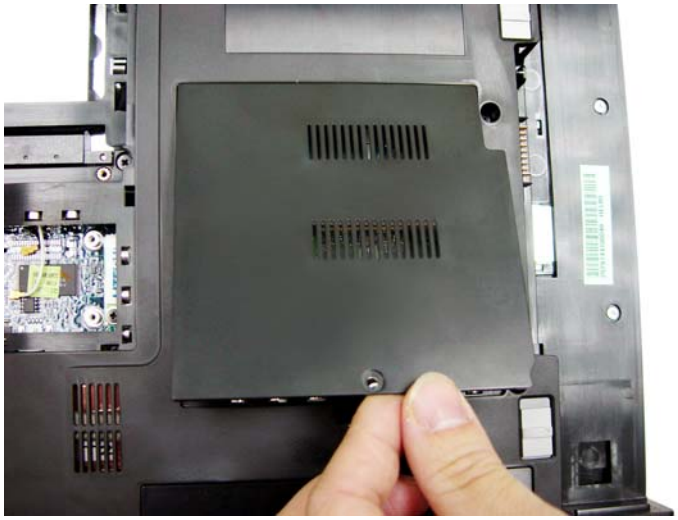
Removing the LCD Module

To remove the LCD module, first remove the battery and any optional devices. Also remove the keyboard as described earlier. Then follow the steps below:

1. Release the two screws securing the LCD assembly from the rear side.



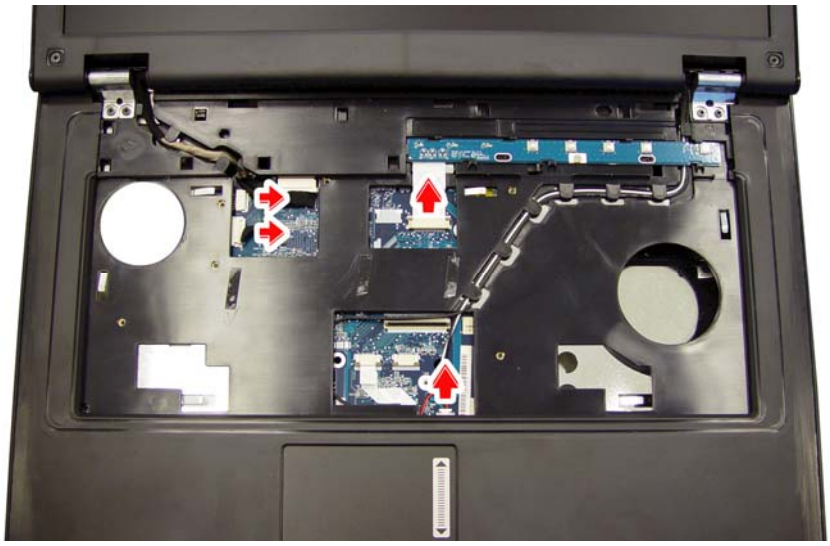
2. Remove the RAM door.



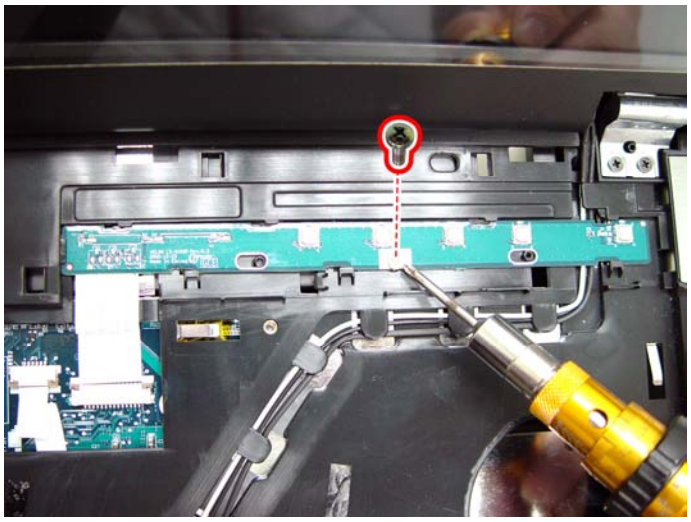
3. Disconnect the RAM connector.

4. Turn the notebook over. The keyboard should have been disassembled. If not, remove it now.

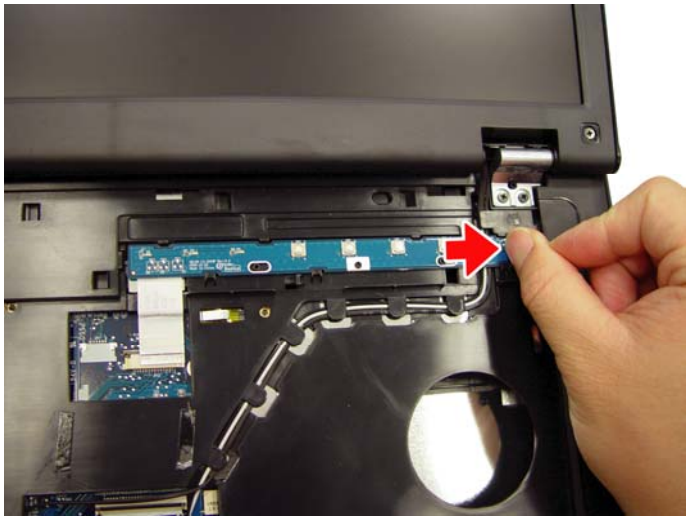
5. Disconnect the four connectors as shown.



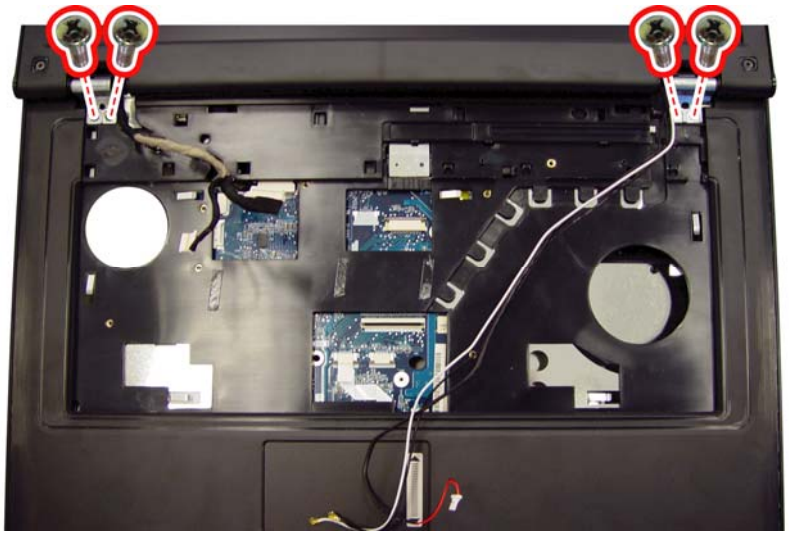
6. Release the screw securing the switch board.



7. Slide out the switch board in direction of the arrows.



8. Remove the four screws securing the LCD module to the logic upper.



9. Remove the LCD module.

Disassembling the Display Mask and the Inverter Board

To remove the display mask, first remove the LCD module as described in the previous section "*Removing the LCD Module*." Then follow the steps below:

1. Remove the two screw pads and four screws securing the LCD bezel to the LCD module.

2. Carefully insert your fingers between the display mask and the LCD bezel, and gently pry up the LCD bezel.

3. Remove the seven screws mounting the display mask, inverter board and LVDS cable to the LCD module.

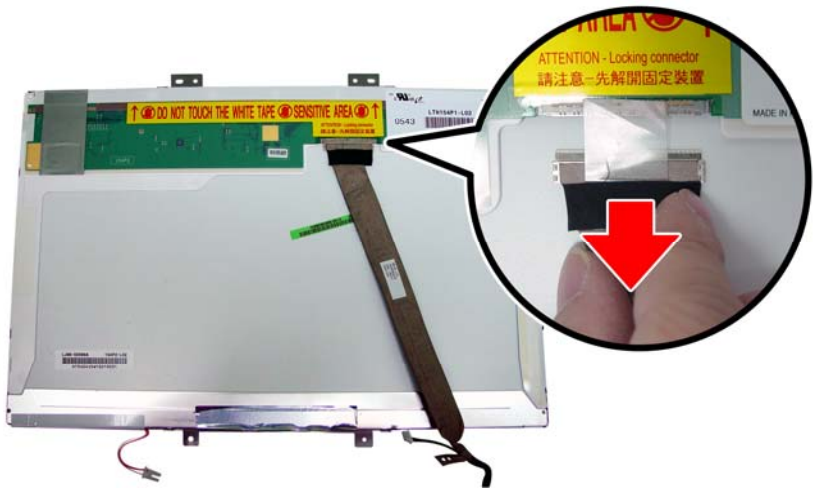
   - Four screws on the display mask.
   - Two screws on the inverter board.
   - One screw on the LDVS cable.

4. Disconnect the two connectors on either side of the board.

5. Remove the inverter board.

6. Remove the eight screws securing the hinges to the display mask.

7. Disconnect the LVDS cable connector from the back of the display mask.

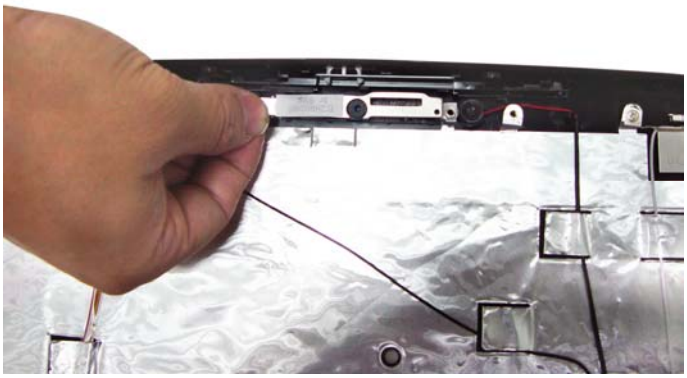


Disassembling the CMOS

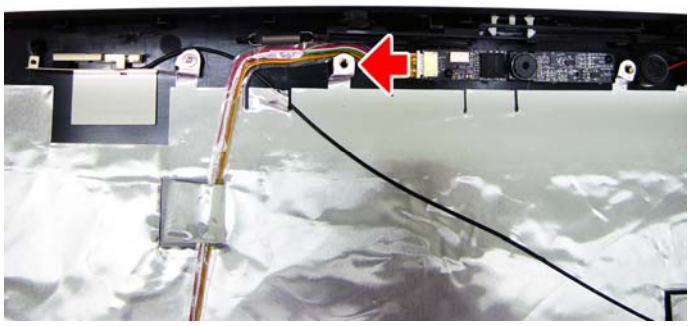
Follow the steps below to disassemble the CMOS:

1. Release the screw securing the CMOS bracket to the chassis.

2. Remove the CMOS bracket.



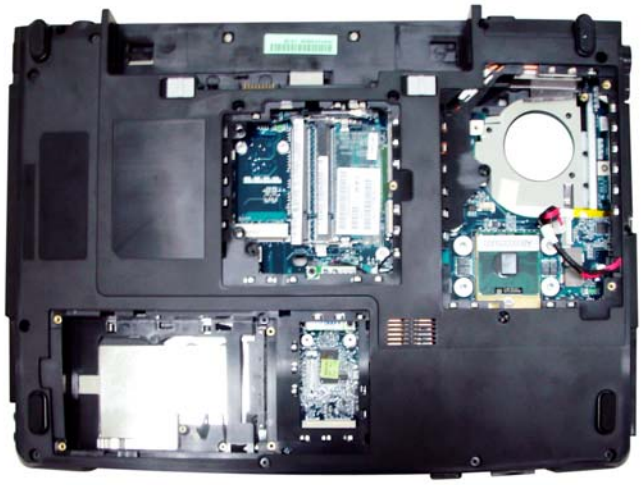
3. Disconnect the CMOS connector and remove the CMOS board.



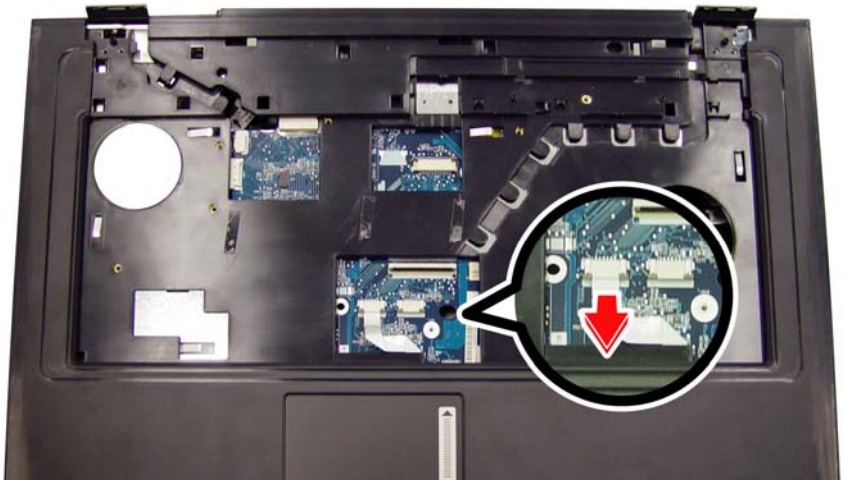
Removing the Logic Upper

To remove the logic upper, first remove the battery pack, HDD, memory module, ODD, keyboard, and LCD module, as described in the preceding sections. Follow the steps below to remove the logic upper.

1. Turn the computer upside down and remove the following 18 screws from the bottom side of the notebook.



2. Turn the computer over again and detach the three cables as shown.

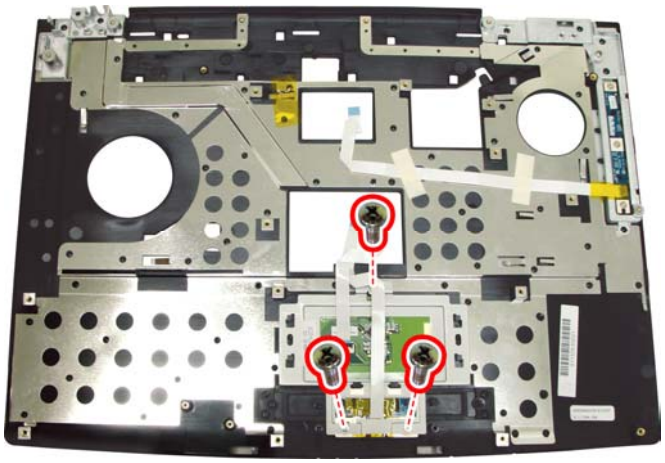


3. Lift off the logic upper.

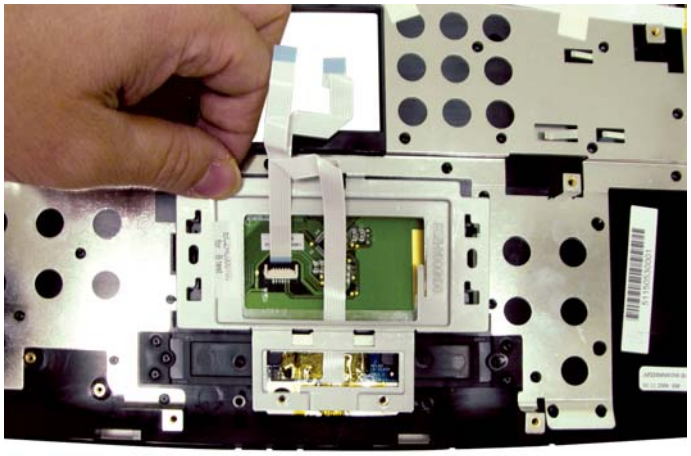
Removing the Touch Pad Board and the Finger Printer Board

To remove the touch pad board, first remove the battery pack, keyboard, and logic upper, and then follow the steps below:

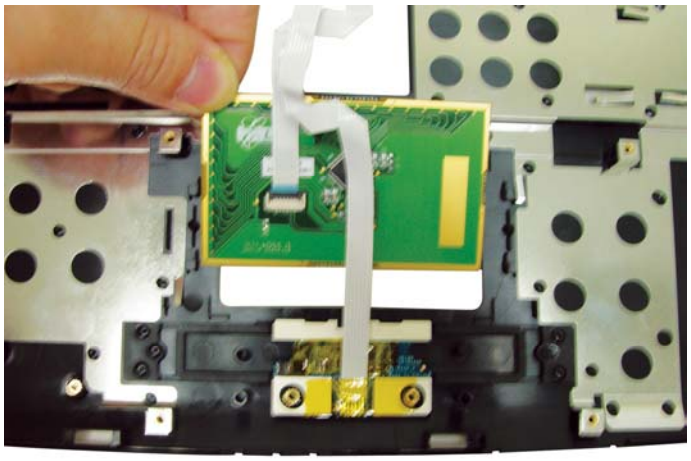
1. Release the three screws securing the touch pad bracket to the back of the logic upper.



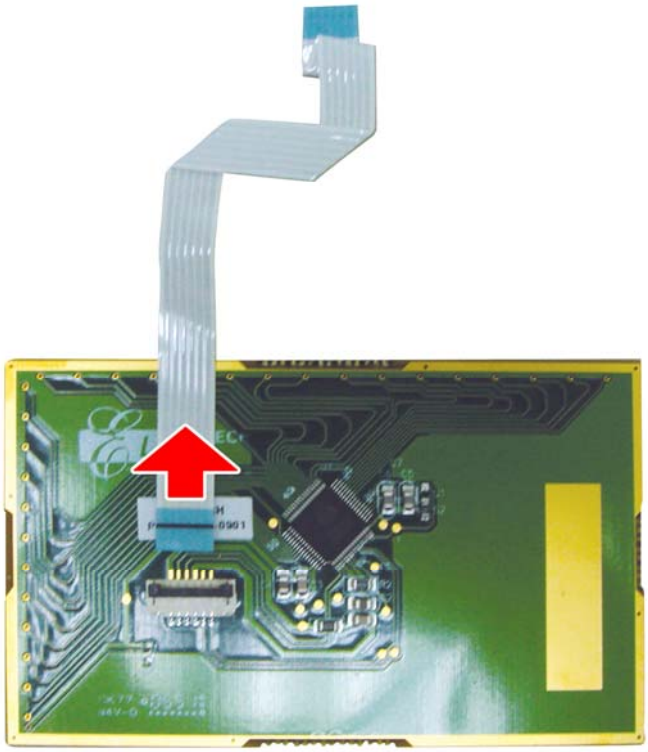
2. Remove the bracket.



3. Remove the touch pad board by lifting it gently.



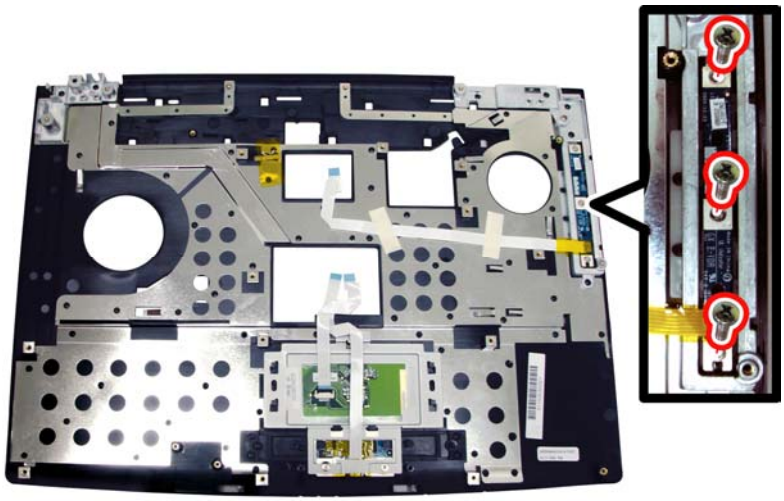
4. Disconnect the connector from the touch pad board.



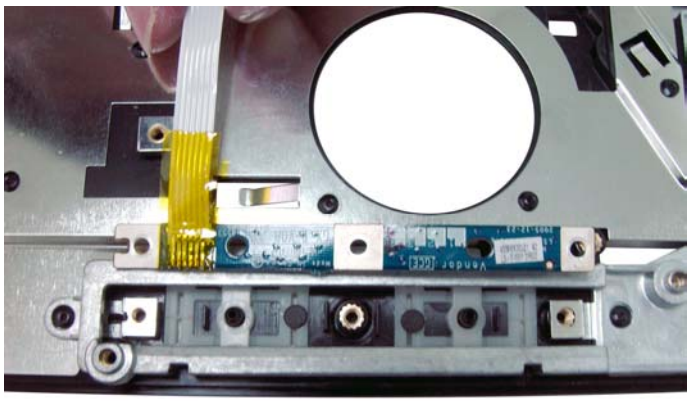
Removing IDMP Board

To remove the IOMP board, first remove the battery pack, keyboard, and logic upper, and then follow the steps below:

1. Remove the three screws securing the IOMP board to the back of the logic upper.



2. Remove the IOMP board.



Removing the CRT Board, IO Board, and TV Antenna Board

The CRT board, IO board, and TV antenna board are under the logic upper. Follow the steps below to remove these three boards.

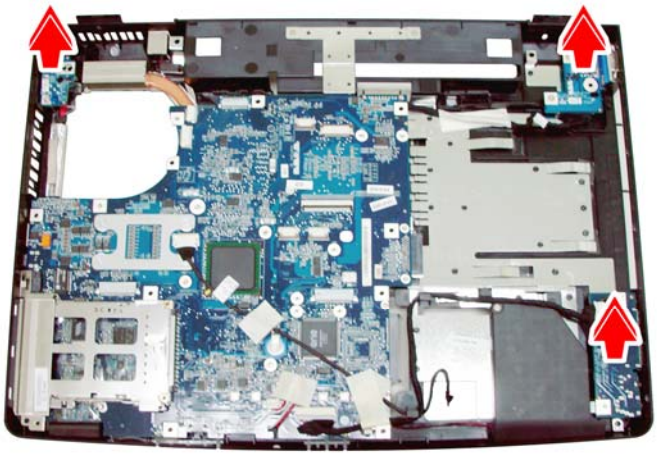
1. Remove the four screws securing the CRT board, IO board, and TV antenna board to the back of the logic upper.

   A : One screw on the TV antenna board.

   B : Two screws on the CRT board.

   C : One screw on the IO board.

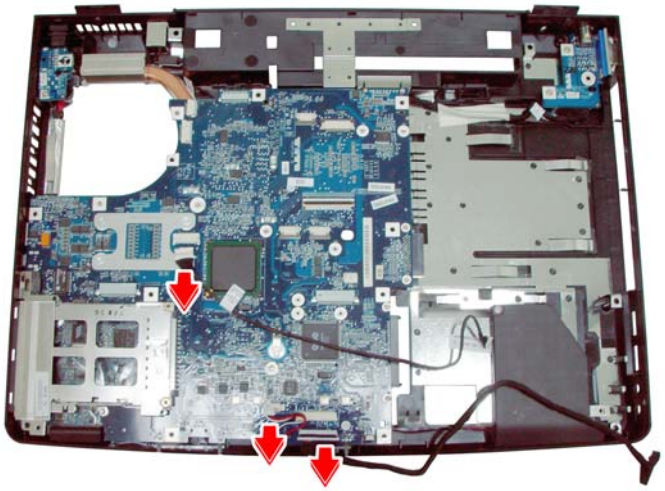
2. Remove the CRT board, IO board, and TV antenna board.



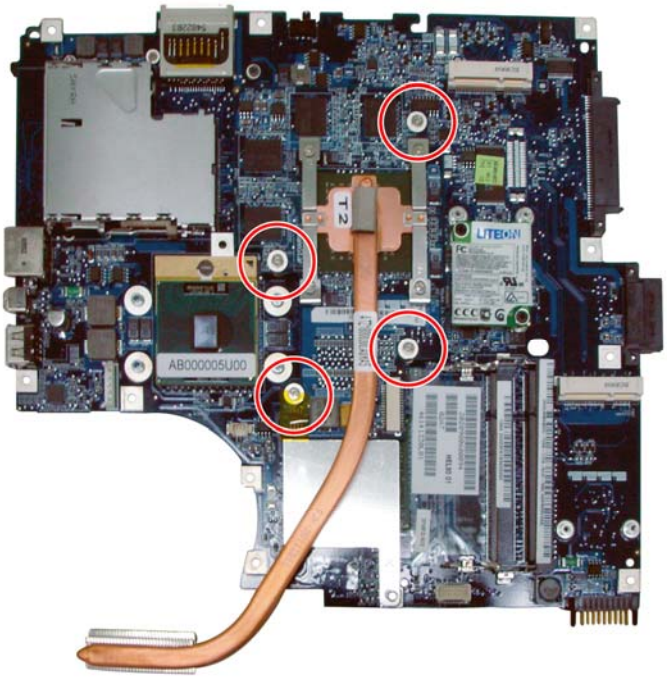
Removing the Motherboard and the VGA Board

Follow the steps below to remove the motherboard and the VGA board:

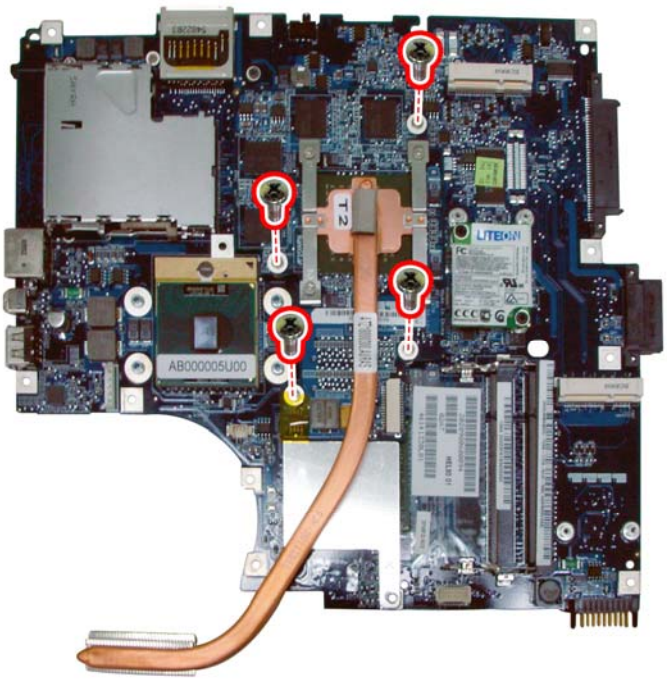
1. Disconnect the three connectors from the back of the motherboard.



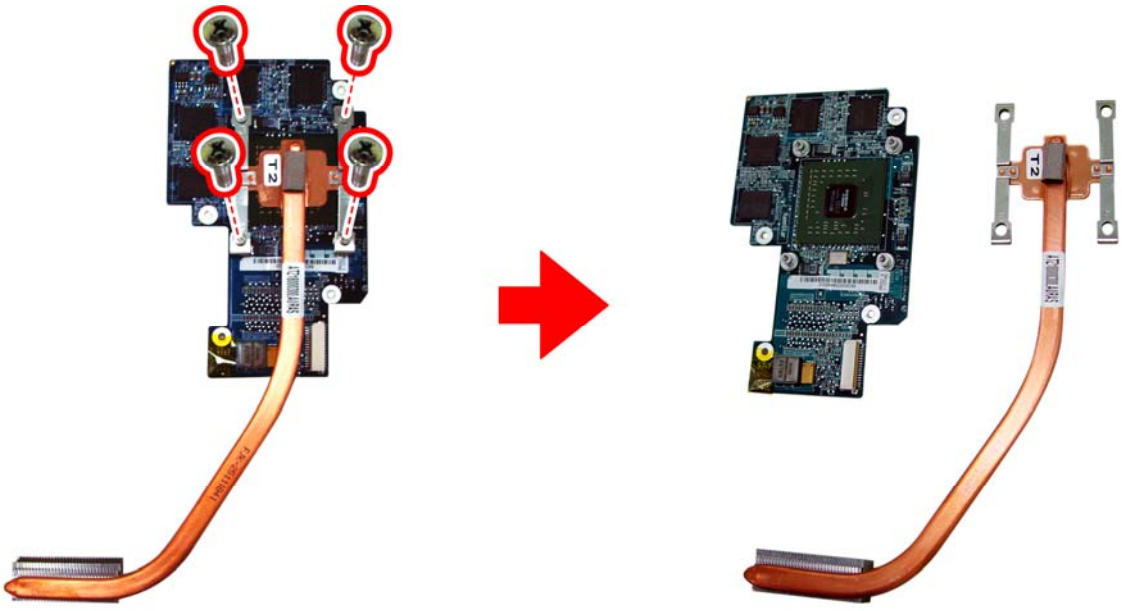
2. Lift off the motherboard and the VGA board. The four screws hold the VGA board on the motherboard.



3. Release the four screws securing the VGA board to the motherboard, and the two boards separated.



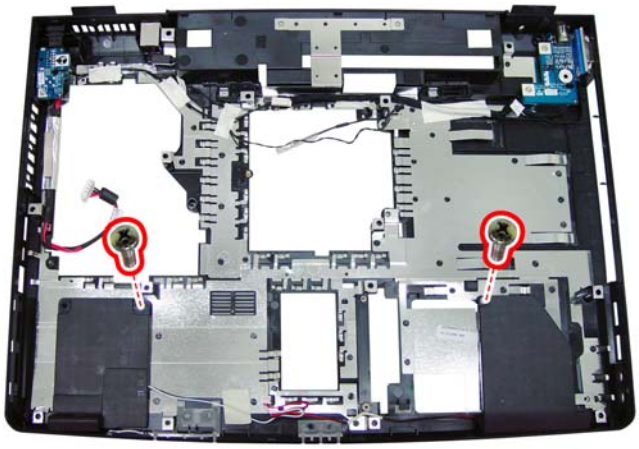
4. To separate the VGA board and the pipe, remove the four screws as shown.



Removing the Speakers

To disassemble the speakers, lift up the motherboard holding with the VGA board, revealing the speakers underneath. Then follow the steps below:

1. Remove the two screws securing the speaker.



2. Lift and remove the speaker.